

9/3/2015
Ms. Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road, Suite 1

Knoxville TN 37932

Project Name: Westlake Landfill
Project #:
Workorder #: 1508373

Dear Ms. Cecilia Greene

The following report includes the data for the above referenced project for sample(s) received on 8/21/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

A Eurofins Lancaster Laboratories Company

WORK ORDER #: 1508373

Work Order Summary

CLIENT:	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932	BILL TO:	Ms. Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932
PHONE:	865-675-3669	P.O. #	
FAX:	865-675-3677	PROJECT #	Westlake Landfill
DATE RECEIVED:	08/21/2015	CONTACT:	Kelly Buettner
DATE COMPLETED:	09/03/2015		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	ENGWESA001	Passive S.E. RAD130/SKC
02A	ENGWESA005	Passive S.E. RAD130/SKC
03A	ENGWESA007	Passive S.E. RAD130/SKC
04A	ENGWESA008	Passive S.E. RAD130/SKC
05A	ENGWESA011	Passive S.E. RAD130/SKC
06A	Duplicate	Passive S.E. RAD130/SKC
07A	TRIP BLANK	Passive S.E. RAD130/SKC
08A	Lab Blank	Passive S.E. RAD130/SKC
09A	LCS	Passive S.E. RAD130/SKC
09AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY:



DATE: 09/03/15

Technical Director

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LABORATORY NARRATIVE
Passive SE GC/MS
Auxier & Associates, Inc.
Workorder# 1508373

Seven Radiello 130 (Solvent) samples were received on August 21, 2015. The laboratory extracted the charcoal sorbent bed of the passive sampler using carbon disulfide. An aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m³ concentrations in the Lab Blank and Trip Blank, a sampling duration of 20278 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWESA001

Lab ID#: 1508373-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.24	0.15
Hexane	0.10	0.075	0.63	0.47
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.28	0.18
Carbon Tetrachloride	0.10	0.074	0.46	0.34
Benzene	0.40	0.25	0.43	0.26
Heptane	0.10	0.085	0.29	0.24
Toluene	0.10	0.067	0.96	0.64
Tetrachloroethene	0.10	0.084	0.56	0.47
Ethyl Benzene	0.10	0.072	0.14	0.099
m,p-Xylene	0.10	0.070	0.42	0.30
o-Xylene	0.10	0.076	0.12	0.095

Client Sample ID: ENGWESA005

Lab ID#: 1508373-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.075	0.60	0.45
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.29	0.18
Carbon Tetrachloride	0.10	0.074	0.45	0.33
Benzene	0.40	0.25	0.53	0.33
Heptane	0.10	0.085	0.26	0.22
Toluene	0.10	0.067	1.2	0.78
Tetrachloroethene	0.10	0.084	0.11	0.094
Ethyl Benzene	0.10	0.073	0.17	0.12
m,p-Xylene	0.10	0.071	0.53	0.37
o-Xylene	0.10	0.076	0.16	0.12

Client Sample ID: ENGWESA007

Lab ID#: 1508373-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.23	0.15
Hexane	0.10	0.075	0.73	0.55



Air Toxics

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWESA007**Lab ID#: 1508373-03A**

Ethyl Acetate	0.40	0.25	0.54	0.35
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.26	0.16
Cyclohexane	0.10	0.092	0.12	0.11
Carbon Tetrachloride	0.10	0.074	0.41	0.30
Benzene	0.40	0.25	0.43	0.27
Heptane	0.10	0.085	0.26	0.22
Toluene	0.10	0.067	1.3	0.87
Tetrachloroethene	0.10	0.084	0.12	0.097
Ethyl Benzene	0.10	0.073	0.17	0.12
m,p-Xylene	0.10	0.071	0.58	0.41
o-Xylene	0.10	0.076	0.17	0.13

Client Sample ID: ENGWESA008**Lab ID#: 1508373-04A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.21	0.13
Hexane	0.10	0.075	0.57	0.43
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.26	0.16
Carbon Tetrachloride	0.10	0.074	0.38	0.28
Benzene	0.40	0.25	0.41	0.26
Heptane	0.10	0.085	0.23	0.20
Toluene	0.10	0.067	0.96	0.64
Ethyl Benzene	0.10	0.073	0.15	0.11
m,p-Xylene	0.10	0.071	0.52	0.37
o-Xylene	0.10	0.076	0.16	0.12

Client Sample ID: ENGWESA011**Lab ID#: 1508373-05A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Acetone	0.20	0.13	0.24	0.15
Hexane	0.10	0.075	1.7	1.2
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.23	0.14



Air Toxics

Summary of Detected Compounds VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: ENGWESA011**Lab ID#: 1508373-05A**

Cyclohexane	0.10	0.092	0.13	0.12
Carbon Tetrachloride	0.10	0.074	0.37	0.27
Benzene	0.40	0.25	0.70	0.43
Heptane	0.10	0.085	0.48	0.41
Toluene	0.10	0.067	1.2	0.77
Ethyl Benzene	0.10	0.073	0.17	0.12
m,p-Xylene	0.10	0.071	0.53	0.37
o-Xylene	0.10	0.076	0.15	0.11

Client Sample ID: Duplicate**Lab ID#: 1508373-06A**

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.075	0.56	0.42
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.28	0.18
Carbon Tetrachloride	0.10	0.074	0.31	0.23
Benzene	0.40	0.25	0.42	0.26
Heptane	0.10	0.085	0.28	0.24
Toluene	0.10	0.067	0.95	0.64
Ethyl Benzene	0.10	0.073	0.15	0.11
m,p-Xylene	0.10	0.071	0.49	0.34
o-Xylene	0.10	0.076	0.14	0.11

Client Sample ID: TRIP BLANK**Lab ID#: 1508373-07A**

No Detections Were Found.



Air Toxics

Client Sample ID: ENGWESA001

Lab ID#: 1508373-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082811sim	Date of Collection:	8/19/15 11:15:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/28/15 11:36 AM	
		Date of Extraction:	8/28/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.24	0.15
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.63	0.47
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.062	0.28	0.18
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.091	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.46	0.34
Benzene	0.40	0.25	0.43	0.26
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.29	0.24
Trichloroethene	0.10	0.071	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.96	0.64
Tetrachloroethene	0.10	0.084	0.56	0.47
Chlorobenzene	0.10	0.072	Not Detected	Not Detected
Ethyl Benzene	0.10	0.072	0.14	0.099
m,p-Xylene	0.10	0.070	0.42	0.30
o-Xylene	0.10	0.076	0.12	0.095
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.086	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20278 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: ENGWESA005

Lab ID#: 1508373-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082812sim	Date of Collection:	8/19/15 10:00:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/28/15 11:59 AM	
		Date of Extraction:	8/28/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.60	0.45
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.29	0.18
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.45	0.33
Benzene	0.40	0.25	0.53	0.33
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.26	0.22
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	1.2	0.78
Tetrachloroethene	0.10	0.084	0.11	0.094
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.17	0.12
m,p-Xylene	0.10	0.071	0.53	0.37
o-Xylene	0.10	0.076	0.16	0.12
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20190 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130



Air Toxics

Client Sample ID: ENGWESA007

Lab ID#: 1508373-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082813sim	Date of Collection:	8/19/15 7:45:00 PM	
Dil. Factor:	1.00	Date of Analysis:	8/28/15 12:23 PM	
		Date of Extraction:	8/28/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.23	0.15
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.73	0.55
Ethyl Acetate	0.40	0.25	0.54	0.35
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.26	0.16
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	0.12	0.11
Carbon Tetrachloride	0.10	0.074	0.41	0.30
Benzene	0.40	0.25	0.43	0.27
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.26	0.22
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	1.3	0.87
Tetrachloroethene	0.10	0.084	0.12	0.097
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.17	0.12
m,p-Xylene	0.10	0.071	0.58	0.41
o-Xylene	0.10	0.076	0.17	0.13
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20176 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130



Air Toxics

Client Sample ID: ENGWESA008

Lab ID#: 1508373-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082814sim	Date of Collection:	8/19/15 10:18:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/28/15 12:47 PM	
		Date of Extraction:	8/28/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.21	0.13
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.57	0.43
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.26	0.16
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.38	0.28
Benzene	0.40	0.25	0.41	0.26
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.23	0.20
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.96	0.64
Tetrachloroethene	0.10	0.084	Not Detected	Not Detected
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.15	0.11
m,p-Xylene	0.10	0.071	0.52	0.37
o-Xylene	0.10	0.076	0.16	0.12
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20202 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130



Air Toxics

Client Sample ID: ENGWESA011

Lab ID#: 1508373-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082815sim	Date of Collection:	8/19/15 10:36:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/28/15 01:10 PM	
		Date of Extraction:	8/28/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	0.24	0.15
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	1.7	1.2
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.23	0.14
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	0.13	0.12
Carbon Tetrachloride	0.10	0.074	0.37	0.27
Benzene	0.40	0.25	0.70	0.43
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.48	0.41
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	1.2	0.77
Tetrachloroethene	0.10	0.084	Not Detected	Not Detected
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.17	0.12
m,p-Xylene	0.10	0.071	0.53	0.37
o-Xylene	0.10	0.076	0.15	0.11
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20213 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130



Air Toxics

Client Sample ID: Duplicate

Lab ID#: 1508373-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082816sim	Date of Collection:	8/19/15 10:18:00 AM	
Dil. Factor:	1.00	Date of Analysis:	8/28/15 01:34 PM	
		Date of Extraction:	8/28/15	
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.48	Not Detected	Not Detected
Acetone	0.20	0.13	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.076	Not Detected	Not Detected
Hexane	0.10	0.075	0.56	0.42
Ethyl Acetate	0.40	0.25	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.063	0.28	0.18
Chloroform	0.10	0.066	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.080	Not Detected	Not Detected
Cyclohexane	0.10	0.092	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.074	0.31	0.23
Benzene	0.40	0.25	0.42	0.26
1,2-Dichloroethane	0.10	0.064	Not Detected	Not Detected
Heptane	0.10	0.085	0.28	0.24
Trichloroethene	0.10	0.072	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.15	Not Detected	Not Detected
Toluene	0.10	0.067	0.95	0.64
Tetrachloroethene	0.10	0.084	Not Detected	Not Detected
Chlorobenzene	0.10	0.073	Not Detected	Not Detected
Ethyl Benzene	0.10	0.073	0.15	0.11
m,p-Xylene	0.10	0.071	0.49	0.34
o-Xylene	0.10	0.076	0.14	0.11
Styrene	0.10	0.081	Not Detected	Not Detected
Propylbenzene	0.10	0.087	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.097	Not Detected	Not Detected
Naphthalene	0.10	0.20	Not Detected	Not Detected

Temperature = 77.0F , duration time = 20202 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130



Air Toxics

Client Sample ID: TRIP BLANK

Lab ID#: 1508373-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082817sim	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 8/28/15 01:58 PM		
		Date of Extraction: 8/28/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.55	Not Detected	Not Detected
Acetone	0.20	0.15	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.086	Not Detected	Not Detected
Hexane	0.10	0.085	Not Detected	Not Detected
Ethyl Acetate	0.40	0.29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.071	Not Detected	Not Detected
Chloroform	0.10	0.075	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.091	Not Detected	Not Detected
Cyclohexane	0.10	0.10	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.084	Not Detected	Not Detected
Benzene	0.40	0.28	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.073	Not Detected	Not Detected
Heptane	0.10	0.097	Not Detected	Not Detected
Trichloroethene	0.10	0.082	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.076	Not Detected	Not Detected
Tetrachloroethene	0.10	0.095	Not Detected	Not Detected
Chlorobenzene	0.10	0.083	Not Detected	Not Detected
Ethyl Benzene	0.10	0.083	Not Detected	Not Detected
m,p-Xylene	0.10	0.080	Not Detected	Not Detected
o-Xylene	0.10	0.086	Not Detected	Not Detected
Styrene	0.10	0.092	Not Detected	Not Detected
Propylbenzene	0.10	0.099	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.22	Not Detected	Not Detected

Temperature = 32.0F , duration time = 20278 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1508373-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082806sim	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 8/28/15 09:36 AM		
		Date of Extraction: 8/28/15		
Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.55	Not Detected	Not Detected
Acetone	0.20	0.15	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.086	Not Detected	Not Detected
Hexane	0.10	0.085	Not Detected	Not Detected
Ethyl Acetate	0.40	0.29	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.10	0.071	Not Detected	Not Detected
Chloroform	0.10	0.075	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.091	Not Detected	Not Detected
Cyclohexane	0.10	0.10	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.084	Not Detected	Not Detected
Benzene	0.40	0.28	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.073	Not Detected	Not Detected
Heptane	0.10	0.097	Not Detected	Not Detected
Trichloroethene	0.10	0.082	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.17	Not Detected	Not Detected
Toluene	0.10	0.076	Not Detected	Not Detected
Tetrachloroethene	0.10	0.095	Not Detected	Not Detected
Chlorobenzene	0.10	0.083	Not Detected	Not Detected
Ethyl Benzene	0.10	0.083	Not Detected	Not Detected
m,p-Xylene	0.10	0.080	Not Detected	Not Detected
o-Xylene	0.10	0.086	Not Detected	Not Detected
Styrene	0.10	0.092	Not Detected	Not Detected
Propylbenzene	0.10	0.099	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.11	Not Detected	Not Detected
Naphthalene	0.10	0.22	Not Detected	Not Detected

Temperature = 32.0F , duration time = 20278 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1508373-09A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082804sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/28/15 08:47 AM
		Date of Extraction: 8/28/15

Compound	%Recovery	Method Limits
Ethanol	114	50-130
Acetone	109	70-130
Methyl tert-butyl ether	109	70-130
Hexane	82	70-130
Ethyl Acetate	101	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
Chloroform	113	70-130
1,1,1-Trichloroethane	88	70-130
Cyclohexane	83	70-130
Carbon Tetrachloride	104	70-130
Benzene	122	70-130
1,2-Dichloroethane	92	70-130
Heptane	132 Q	70-130
Trichloroethene	100	70-130
4-Methyl-2-pentanone	98	70-130
Toluene	89	70-130
Tetrachloroethene	101	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	98	70-130
o-Xylene	87	70-130
Styrene	62	20-100
Propylbenzene	104	70-130
1,4-Dichlorobenzene	82	50-110
Naphthalene	17	5-80

Q = Exceeds Quality Control limits.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1508373-09AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	10082805sim	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/28/15 09:10 AM
		Date of Extraction:	8/28/15

Compound	%Recovery	Method Limits
Ethanol	95	50-130
Acetone	96	70-130
Methyl tert-butyl ether	98	70-130
Hexane	91	70-130
Ethyl Acetate	94	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
Chloroform	110	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	94	70-130
Benzene	108	70-130
1,2-Dichloroethane	86	70-130
Heptane	115	70-130
Trichloroethene	98	70-130
4-Methyl-2-pentanone	97	70-130
Toluene	89	70-130
Tetrachloroethene	95	70-130
Chlorobenzene	86	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	93	70-130
o-Xylene	83	70-130
Styrene	59	20-100
Propylbenzene	96	70-130
1,4-Dichlorobenzene	79	50-110
Naphthalene	15	5-80

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130